Panasonic

80-inch class Multi Touch Screen LED Display

TH-80LFB70U

⬤ Product specification (design and specification subject to change without notice)

■DISPLAY

Screen Size (Diagonal)	80.0 inch (2,032 mm)
Panel Type/Backlight	LCD VA panel/E-LED
Aspect Ratio	16:9
Effective Display Area (W x H)	69.7" x 39.2" (1,771 x 996 mm)
Number of Pixels (H x V)	1,920 x 1,080 pixel
Brightness	350 cd/㎡
Contrast Ratio	5000:1
Respons Time	4 ms (G to G)
Viewing Angle(Horizontal/Vertical)	176 degrees/176 degrees
Panel Life*	approx. 50,000 hours

*An approximate time until the panel brightness decreases to half of its original value.

■TOUCH PANEL

Detection Method	Infrared blocking detection method
PC Connection Port	USB (Compliance with 3.0)

■CONNECTION TERMINAL

VIDEO IN	BNC x 1	1.0 Vp-p (75Ω)
AUDIO IN (L/R)	Stereo mini jack (M3) x 1 (Shared with COMPONENT/RGB IN)	0.5 Vrms
COMPONENT/RGB IN	BNC x 1 set	Y/G : 1.0 Vp-p (75Ω) P$_B$/C$_B$/B : 0.7 Vp-p (75Ω) P$_R$/C$_R$/R : 0.7 Vp-p (75Ω)
AUDIO IN (L/R)	Stereo mini jack (M3) x 1 (Shared with VIDEO IN)	0.5 Vrms
HDMI IN	HDMI TYPE A connector x 2	
DVI-D IN	DVI-D 24pin (Digital) x 1	Copliance with DVI Revision 1.0, Compatible with HDCP 1.1
AUDIO IN (L/R)	Stereo mini jack (M3) x 1 (Shared with PC IN)	0.5 Vrms
PC IN	Mini D-sub 15pin (female) x 1 Plug & Play (VESA DDC 2B)	Y/G : with sync 1.0 Vp-p (75Ω) : without sync 0.7 Vp-p (75Ω) P$_B$/C$_B$/B : 0.7 Vp-p (75Ω) P$_R$/C$_R$/R : 0.7 Vp-p (75Ω) HD/VD : 1.0 - 5.0 Vp-p (high impedance)
AUDIO IN (L/R)	Stereo mini jack (M3) x 1 (Shared with DVI-D IN)	0.5 Vrms
PC OUT	Mini D-sub 15pin x 1	R : 0.7 Vp-p (75Ω) G : 0.7 Vp-p (75Ω) B : 0.7 Vp-p (75Ω) HD/VD : 3.5 - 5.0 Vp-p
Function Slot : SLOT2.0	1 (Vacant)	
USB A	TYPE A USB connector x 1 (For Memory Viewer)	
USB B	TYPE B USB connector x 1 (For Touch panel)	
External Speaker	8Ω, 20 W [10 W + 10 W] (10 %THD)	

■CONTROL

SERIAL	D-sub 9pin (male) x 1 (EXTERNAL CONTROL TERMINAL), RS-232C Compatible
DIGITAL LINK	RJ45 x 1 (Shared with LAN)
LAN	RJ45 x 1, 100BASE-TX, Compatible with PJLink (Shared with DIGITAL LINK)

■ELECTRICAL

Power Requirements	110-127 V AC, 50/60 Hz.
Power Consumption	350 W
Powe Off Condition	approx. 0.3 W
Stand-by Condition	approx. 0.5 W

■AUDIO

Built in Speaker	20 W [10 W + 10 W]

■MECHANICAL

Dimensions (W x H x D)	73.6" x 43.1" x 4.1" (1,868 x 1,093 x 104 mm)
Bezel Width	approx. 1.7" (43 mm)
Carton Dimensions (W x H x D)	81.7" x 52.0" x 16.0" (2,075 x 1,319 x 404 mm)
Weight	approx. 185.2 lbs. (84 kg)
Gross Weight	approx. 227 lbs. (103 kg)
Cabinet Material/Color	Aluminum/Black
Pitch for Wall-Hanging	VESA Compliant 15.8" x 15.8" (400 x 400mm)
Protection Glass Thickness	approx. 0.16" (4 mm)/Anti Glare

■ENVIRONMENTAL

Operating Environment	Temperature	: 32°F to 104°F (0℃ to 40℃)
	Humidity	: 20% to 80% (Non condensation)
Storage Environment	Temperature	: -4°F to 140°F (-20℃ to 60℃)
	Humidity	: 20% to 80% (Non condensation)

■BUILT-IN WIRELESS LAN FUNCTION

Standard	2.4 GHz: IEEE802.11b/g /n, 5.0 GHz: IEEE802.11a/n
Infrastructure Mode	WPA2-PSK (TKIP/AES), WPA-PSK (TKIP/AES), WEP (64-bit/128-bit), WPA-EAP/WPA2-EAP (PEAP [MS-CHAPv2/GTC]/EAP-FAST [MS-CHAPv2/GTC]/EAP-TTLS [MD5/MS-CHAPv2], 128-bit/64-bit)

UPC Code	885170179318

MAIN FEATURE

Easy Whiteboard Functions	Yes
Memory Viewer	• Picture Extension :JPG, JPEG, BMP Format :Maximum resolution 8,000 x 8,000 Bit numbers (Bit depth): up to 24 bit • Video Extension :mov, avi, mp4, mpg, mpeg, wmv Video format :Maximum 1,920 x 1,080/30fps Video bitrate :up to 40M bps Audio format :Maximum 48 kHz 2ch Audio bitrate :up to 384k bps
Wireless Connections	Yes
DIGITAL LINK	Yes
Secondary Display	Yes
Picture in Picture	Yes
Digital Zoom	Yes
1:1Pixel Mode	Yes
Auto Set Up	Yes
Power Management	Yes
Power Management (PC/DVI-D)	Yes
Input Lock	Yes
Button/Input lock	Yes
Remote-control User Level	Yes
No Signal Power Off	Yes
Orientation	Landscape
Input Search	Yes

INCLUDED ACCESSORIES

- AC cord (78.74" (2 m)) - Remote Control Transmitter
- Batteries for the Remote Control Transmitter (R6 (UM) Size x 2)
- Software CD-ROM (Whiteboard software/Wireless Manager software/Operating Instruction) x 1 - USB Cable (78.74" (2 m)) x 1
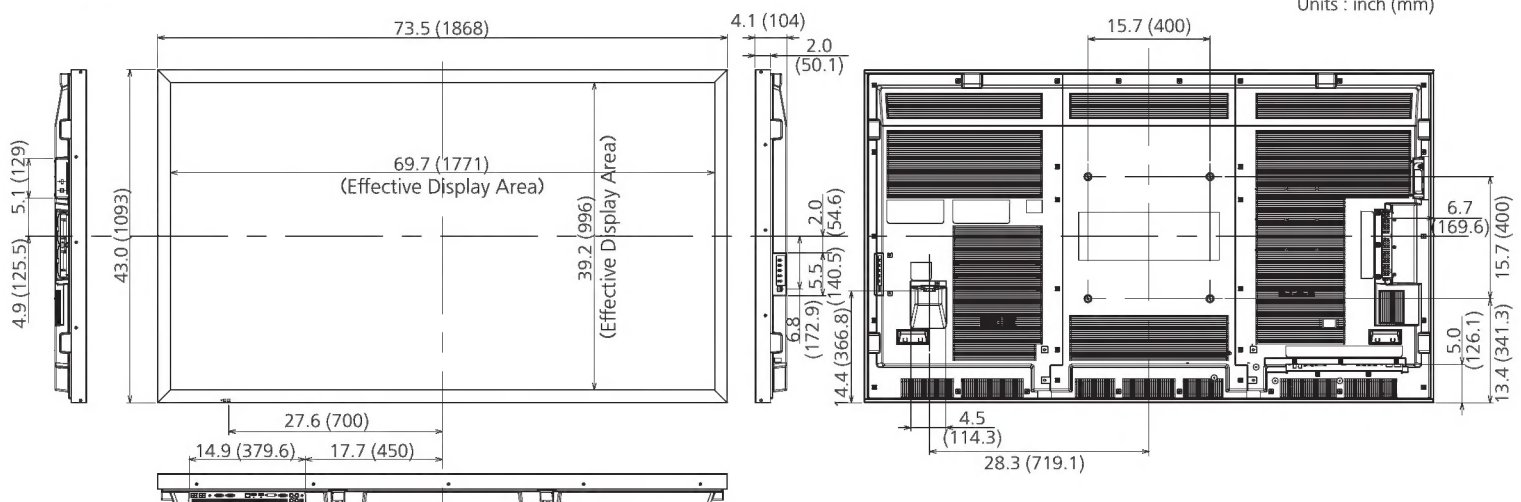- Pen x 4 - Eraser x 1 - Pen Stand x 1 - Operating Instruction book

OPTIONAL ACCESSORIES

Mobile Stand	TY-ST80LF70
Wall-hanging Bracket (Vertical)	TY-WK70PV50
Pedestal	TY-ST65P20
Dual Video Board	TY-FB9BD
DVI-D Terminal Board	TY-FB11DD
Dual HDMI Terminal Board	TY-FB10HMD
HD-SDI Terminal Board	TY-FB9HD
HD-SDI with Audio Terminal Board	TY-FB10HD
Dual Link HD-SDI Terminal Board	TY-FB11DHD
Slot in PC	PLUGTHA54
Digital Interface Box	ET-YFB100G
Easy Wireless Stick	ET-UW100U

STANDARD (CERTIFICATIONS)

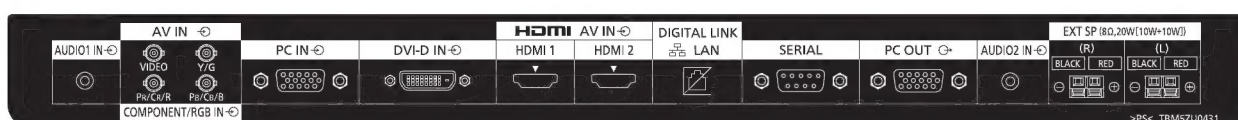|	
SAFETY REGULATIONS	UL60065, CAN/CSA-22.2 No 60065:03
RADIATION REGULATIONS	FCC Part 15 Class-B, ICES-003

DIMENSIONS

Cautions: This drawing is not a scale

Units : inch (mm)

73.5 (1868)
4.1 (104)
2.0 (50.1)
69.7 (1771) (Effective Display Area)
39.2 (996) (Effective Display Area)
43.0 (1093)
5.1 (129)
4.9 (125.5)
27.6 (700)
14.9 (379.6) 17.7 (450)
15.7 (400)
6.7 (169.6)
15.7 (400)
5.0 (126.1)
13.4 (341.3)
2.0 (54.6)
5.5 (140.5)
6.8 (172.9)
14.4 (366.8)
4.5 (114.3)
28.3 (719.1)

CONNECTION TERMINAL

SIDE

USB B TOUCH   USB A VIEWER   >PS< TBM5ZU0421

BACK

AUDIO1 IN   AV IN   PC IN   DVI-D IN   HDMI AV IN HDMI 1 HDMI 2   DIGITAL LINK LAN   SERIAL   PC OUT   AUDIO2 IN   EXT SP (8Ω,20W(10W+10W)) (R) (L)
VIDEO Y/G   PR/CR/R PB/CB/B   COMPONENT/RGB IN   BLACK RED BLACK RED   >PS< TBM5ZU0431

⬤ Applicable Input Signals

* Mark: Applicable input signal

	Signal name	Horizontal frequency (kHz)	Vertical frequency (Hz)	COMPONEN T / RGB IN / PC IN (Dot clock (MHz))	DVI-D IN (Dot clock (MHz))	HDMI
1	525 (480) / 60i	15.73	59.94	* (13.5)	* (27.0)	*
2	525 (480) / 60p	31.47	59.94	* (27.0) *5	* (27.0)	*
3	625 (575) / 50i	15.63	50.00	* (13.5)		
4	625 (576) / 50i	15.63	50.00		* (27.0)	*
5	625 (575) / 50p	31.25	50.00	* (27.0)		
6	625 (576) / 50p	31.25	50.00		* (27.0)	*
7	750 (720) / 60p	45.00	60.00	* (74.25)	* (74.25)	*
8	750 (720) / 50p	37.50	50.00	* (74.25)	* (74.25)	*
9	1,125 (1,080) / 60p	67.50	60.00	* (148.5) *1	* (148.5)	*
10	1,125 (1,080) / 60i	33.75	60.00	* (74.25) *1	* (74.25)	*
11	1,125 (1,080) / 50p	56.26	50.00	* (148.5) *1	* (148.5)	*
12	1,125 (1,080) / 50i	28.13	50.00	* (74.25) *1	* (74.25)	*
13	1,125 (1,080) / 24sF	27.00	48.00	* (74.25) *2		
14	1,125 (1,080) / 30p	33.75	30.00	* (74.25) *1	* (74.25)	
15	1,125 (1,080) / 25p	28.13	25.00	* (74.25) *1	* (74.25)	
16	1,125 (1,080) / 24p	27.00	24.00	* (74.25) *1	* (74.25)	*
17	1,250 (1,080) / 50i	31.25	50.00	* (74.25) *3		
18	2,048 × 1,080 / 24sF *7	27.00	48.00			
19	2,048 × 1,080 / 24p *7	27.00	24.00			
20	640 × 400 @70 Hz	31.46	70.07	* (25.17)		
21	640 × 480 @60 Hz	31.47	59.94	* (25.18) *6	* (25.18)	*
22	640 × 480 @72 Hz	37.86	72.81	* (31.5)		
23	640 × 480 @75 Hz	37.50	75.00	* (31.5)		
24	640 × 480 @85 Hz	43.27	85.01	* (36.0)		
25	800 × 600 @56 Hz	35.16	56.25	* (36.0)		
26	800 × 600 @60 Hz	37.88	60.32	* (40.0)	* (40.0)	*
27	800 × 600 @72 Hz	48.08	72.19	* (50.0)		
28	800 × 600 @75 Hz	46.88	75.00	* (49.5)		
29	800 × 600 @85 Hz	53.67	85.06	* (56.25)		
30	852 × 480 @60 Hz	31.47	59.94	* (33.54) *6	* (34.24)	*
31	1,024 × 768 @50 Hz	39.55	50.00		* (51.89)	*
32	1,024 × 768 @60 Hz	48.36	60.00	* (65.0)	* (65.0)	*
33	1,024 × 768 @70 Hz	56.48	70.07	* (75.0)		
34	1,024 × 768 @75 Hz	60.02	75.03	* (78.75)		
35	1,024 × 768 @85 Hz	68.68	85.00	* (94.5)		
36	1,066 × 600 @60 Hz	37.64	59.94	* (53.0)	* (53.0)	*
37	1,152 × 864 @60 Hz	53.70	60.00		* (81.62)	*
38	1,152 × 864 @75 Hz	67.50	75.00	* (108.0)		
39	1,280 × 768 @60 Hz	47.70	60.00	* (80.14)		
40	1,280 × 800 @60 Hz (1)	49.31	59.91	* (71.0)	* (71.0)	*
41	1,280 × 800 @60 Hz (2)	49.70	59.81	* (83.5)	* (83.5)	*
42	1,280 × 960 @60 Hz	60.00	60.00	* (108.0)		
43	1,280 × 960 @85 Hz	85.94	85.00	* (148.5)		
44	1,280 × 1,024 @60 Hz	63.98	60.02	* (108.0)	* (108.0)	*
45	1,280 × 1,024 @75 Hz	79.98	75.03	* (135.0)		
46	1,280 × 1,024 @85 Hz	91.15	85.02	* (157.5)		
47	1,366 × 768 @50 Hz	39.55	50.00		* (69.92)	*
48	1,366 × 768 @60 Hz	48.36	60.00	* (86.71)	* (87.44)	*
49	1,400 × 1,050 @60 Hz	65.22	60.00		* (122.61)	*
50	1,440 × 900 @60 Hz (1)	55.47	59.90	* (88.75)	* (88.75)	*
51	1,440 × 900 @60 Hz (2)	55.93	59.89	* (106.5)	* (106.5)	*
52	1,600 × 1,200 @60 Hz	75.00	60.00	* (162.0)	* (162.0)	*
53	1,600 × 1,200 @65 Hz	81.25	65.00	* (175.5)		
54	1,920 × 1,080 @60 Hz	67.50	60.00	* (148.5) *4	* (148.5)	*
55	1,920 × 1,200 @60 Hz	74.04	59.95		* (154.0)	*
56	Macintosh13" (640 × 480)	35.00	66.67	* (30.24)		
57	Macintosh16" (832 × 624)	49.72	74.54	* (57.28)		
58	Macintosh21" (1,152 × 870)	68.68	75.06	* (100.0)		

* 1: Based on SMPTE 274M standard.   * 2: Based on SMPTE RP211 standard.

* 3: Based on SMPTE 295M standard.   * 4: The input signal is recognized as 1,125 (1,080) / 60p.

* 5: When selected the RGB format and 525p signal input to the PC IN terminal, it is recognized as VGA 60Hz signal.

* 6: When inputted VGA 60Hz format signal from the other than PC IN terminal, it is recognized as 525p signal.

* 7: Based on SMPTE 292M and 372M standards. These signals can be received when the Dual Link HD-SDI Terminal Board (TY-FB11DHD) is installed.

Note: Signals without above specification may not be displayed properly.